

**PowerLite® S5 Series/77c  
Multimedia Projector**

*User's Guide*

## Important Safety Information

**WARNING:** Never look into the projector lens when the lamp is turned on; the bright light can damage your eyes. Never let children look into the lens when it is on. Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages inside the projector can severely injure you. Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

**WARNING:** The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

**Caution:** When you replace the lamp, never touch the new lamp with your bare hands; the invisible residue left by the oil on your hands may shorten the lamp life. Use a cloth or glove to handle the new lamp.

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# W *Welcome*

The PowerLite® S5 Series/77c is an ultra-portable projector that offers 2000 ANSI lumens (S5 Series) or 2200 ANSI lumens (77c) of brightness. From conference rooms to auditoriums, your full-color presentations and videos will be bright and visible even in ordinary indoor lighting.

Images are displayed at a native resolution of 800 × 600 pixels (PowerLite S5 Series) or 1024 × 768 pixels (PowerLite 77c). Epson® 3LCD technology ensures accurate color and remarkable saturation, even in well-lit rooms. Support for S-Video contributes to theater-quality performance.

You can connect the projector to a wide range of computers, including IBM®-compatible PCs and laptops, Apple® Macintosh®, Power Macintosh® series (including G4 and G5 systems), PowerBook® computers, and many iMac® and iBook® series systems. With Epson's patented SizeWise™ technology, the projector supports a wide range of computer displays.

You can use any of the following video sources: HDTV, VCR, DVD player, gaming console (such as Microsoft® Xbox,™ Sony® PlayStation® 3, and Nintendo Wii™), camcorder, or digital camera. The projector supports NTSC, PAL, and SECAM video formats.

You can connect up to three devices to the projector at the same time. The source buttons let you easily switch among them. With the projector's **Source Search** button, you don't even have to identify your input source. Just press the button until you see the image you want on the screen.

To prevent unauthorized use of the projector, you can assign a password, create a user logo which is displayed at startup to identify the projector, and disable the projector's buttons through the Operation Lock feature. For more information about security features, see page 66.

## *Getting the Most from Your Projector*

Depending on your presentation, you can take advantage of any or all of these options:

- **Connecting to a laptop or other computer**

If you want to connect the projector to a laptop or desktop computer, see page 18. For additional presentation control, you can connect a USB cable to the projector for running slide shows, and connect an external monitor to view the presentation on your computer simultaneously.

- **Connecting to video sources**

You can connect a DVD player, VCR, HDTV, camcorder, digital camera, and other video sources to your projector. See page 24 for instructions.

- **Using the remote control**

The remote control lets you switch from computer to video sources, zoom in on part of your image, freeze or mute the presentation, and adjust many other projector features. For details, see Chapter 3.

By connecting a USB cable to your projector, you can also use the remote control to click through computer-based presentations (such as PowerPoint®) from up to 20 feet away. For more information, see page 48.



## *Using Your Documentation*

Your documentation includes a *Quick Setup* sheet, warranty brochures, and an Epson PrivateLine® Support card.

The *Quick Setup* sheet gives instructions to quickly set up your projector and connect it to a computer or video device.

This book contains all the information you need to set up and use your projector. Please follow these guidelines as you read through it:

- **Warnings** must be followed carefully to avoid bodily injury.
- **Cautions** must be observed to avoid damage to your equipment.
- **Notes** contain important information about your projector.

## ***Getting More Information***

Need tips on giving presentations? How about quick steps for setting up your projector? Here's where you can look for help:

- **[www.presentersonline.com](http://www.presentersonline.com)**  
Includes a library of articles covering presentation tips, tricks, and technology. The site provides templates, clip art, and sound clips, as well as Presenters Services to use on the road. Even more resources and services are available if you register to join the Presenters Club—and it's free.
- **Built-in help system**  
Press the **Help** button on the remote control or projector to get quick solutions for common problems. See page 82 for details.
- **[epson.com/support](http://epson.com/support)**  
Download FAQs (frequently asked questions) and e-mail your questions to Epson support.

If you still need help after checking this *User's Guide* and the sources listed above, you can use the Epson PrivateLine Support service to get help fast. Call (800) 637-7661 and enter the PIN on your PrivateLine Support card. See page 93 for more information.

## Registration and Warranty

Your projector comes with a basic carry-in warranty and an international warranty that let you project with confidence anywhere in the world. For details, see the warranty brochures that came with your projector.

In addition, Epson offers free Extra Care<sup>SM</sup> Road Service. In the unlikely event of an equipment failure, you won't have to wait for your unit to be repaired. Instead, Epson will ship you a replacement unit anywhere in the United States or Canada, usually via overnight delivery. See the Extra Care Road Service brochure for details.

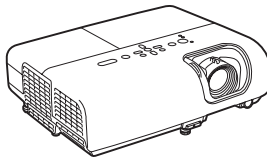
To register, complete the registration form that came with your projector and mail it to Epson. Or register your product online at:

<http://www.epson.com/webreg>

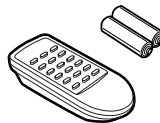
Registering also lets you receive special updates on new accessories, products, and services.

## Unpacking the Projector

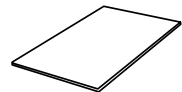
After unpacking the projector, make sure you have all these items:



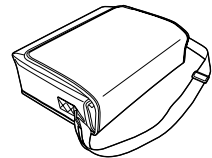
Projector



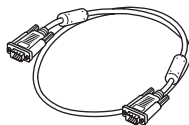
Remote control  
and batteries



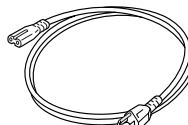
Quick Setup sheet



Carrying case



VGA computer cable



Power cord

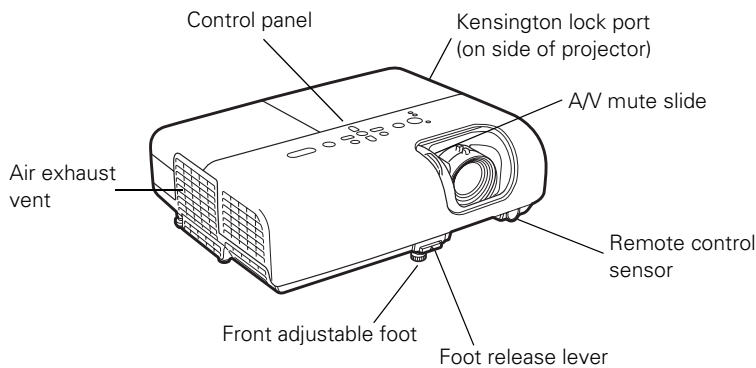


Password Protected  
Sticker

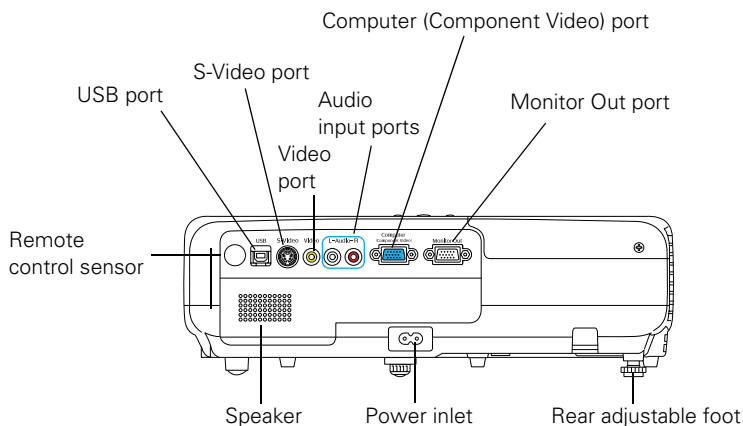
Save all packaging in case you need to ship the projector. Always use the original packaging (or equivalent) when you need to send the projector to another location.

## *Projector Parts*

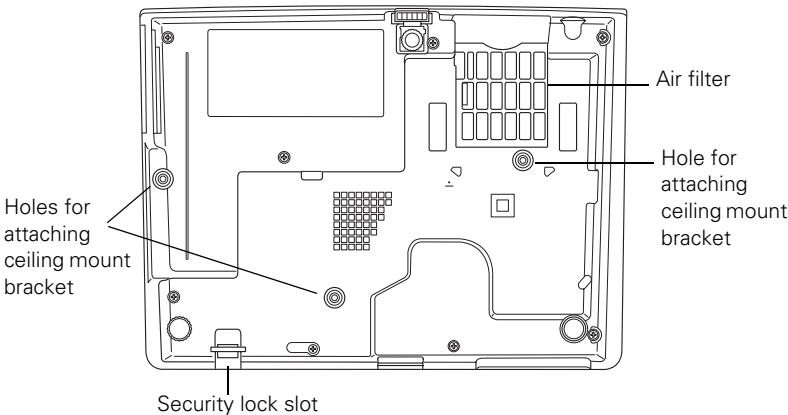
### **Front**



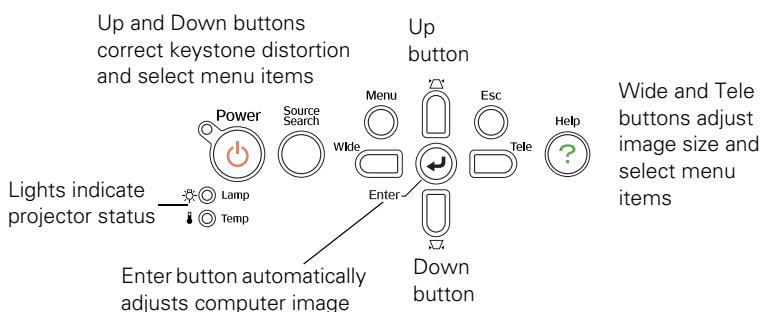
### **Back**



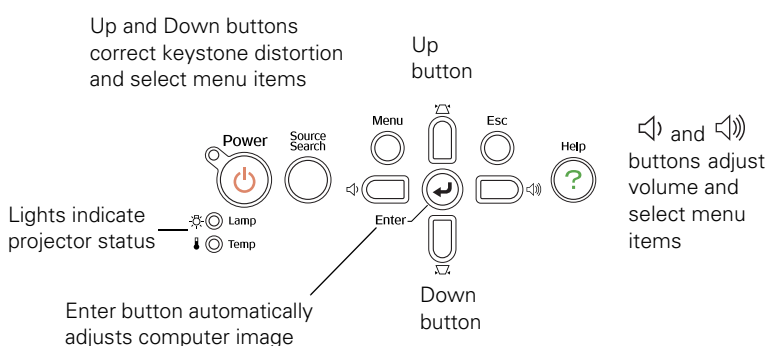
**Bottom**



**PowerLite S5 Series Control Panel**



**PowerLite 77c Control Panel**



## *Additional Components*

Depending on how you plan to use the projector, you may need additional components:

- To receive an S-Video signal, you need an S-Video cable. One is usually provided with your video device, or you can purchase it from Epson. See page 14.
- To receive a component video signal from a VCR or other video device, you need a D-sub, 15-pin, VGA-to-component video cable, which is available from Epson. See page 14.
- Some older PowerBooks and Macintosh desktop models may need a Macintosh video adapter; see your computer dealer. Older iMac systems may need a special adapter to provide a VGA output port; see your computer dealer.
- To receive an audio signal, you need a commercially available audio adapter cable; see your computer or electronics dealer.
- To use the projector's remote control to change presentation slides, you need a USB cable; see your computer or electronics dealer.

## Optional Accessories

### **note**

To purchase a replacement remote control, call (562) 276-4394 (U.S.) or (905) 709-3839 (for dealer referral in Canada).

To enhance your use of the projector, Epson provides the following optional accessories:

Product	Product number
Replacement lamp	V13H010L41
Air filter set (includes 2 filters)	V13H134A13
Component video cable S-Video cable	ELPKC19 ELPSV01
Distribution amplifier	ELPDA01
Duet™ portable projector screen 50-inch portable screen 60-inch portable pop-up screen 80-inch portable pop-up screen 83.6-inch hanging pull-down screen	ELPSC80 ELPSC06 ELPSC07 ELPSC08 ELPSC09
ELPDC05 high resolution document imager	V12H162020
Kensington® security lock	ELPSL01
Ceiling mount (gyro lock with suspension adapter) False ceiling plate Suspension adapter Security bracket/cabling for gyro lock mounts Adjustable ceiling channel	ELPMBUNI ELPMBFCP ELPMBAPL ELPMBSEC ELPMBACC

You can purchase screens, carrying cases, or other accessories from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at [www.epsonstore.com](http://www.epsonstore.com) (U.S. sales) or [www.epson.ca](http://www.epson.ca) (Canadian sales).

# 1 *Setting Up the Projector*

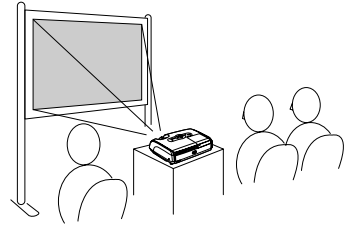
This chapter tells you how to set up the projector and connect it to a computer or video source. You can connect up to three devices simultaneously: three video sources, or one computer and two video sources.

You'll find instructions for the following in this chapter:

- Positioning the projector
- Connecting to a computer
- Connecting to video sources

## Positioning the Projector

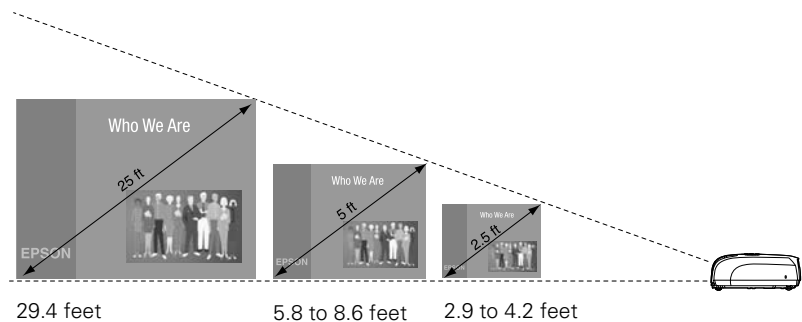
Before connecting the projector, you need to decide where to place it. If you're setting up the projector yourself and it isn't already installed in the room you're using, you'll probably want to place it on a table in front of the screen, as shown.



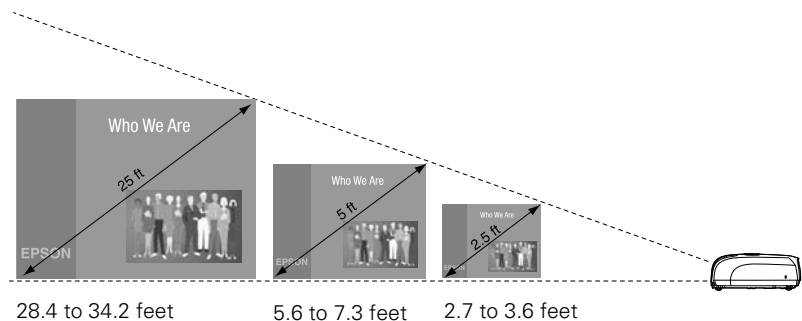
This lets you stand in the front of the room, face the audience, and remain close enough to the equipment to be able to control it. Try to leave as much space as possible between the projector and the screen to get a good-size image.

Place the projector somewhere between 3 and 30 feet from the screen. Use the figure below to help you determine exactly how far. Image size increases with distance, but can vary depending on how you've adjusted the optical zoom and other settings.

### PowerLite S5 Series



### PowerLite 77c





Also keep these considerations in mind:

- Place the projector on a sturdy, level surface.
- Make sure there is plenty of space for ventilation around and under the projector. Do not set the projector on top of loose papers that could block the vents under the projector.
- Make sure the projector is within 6 feet (2 m) of a grounded electrical outlet or extension cord.

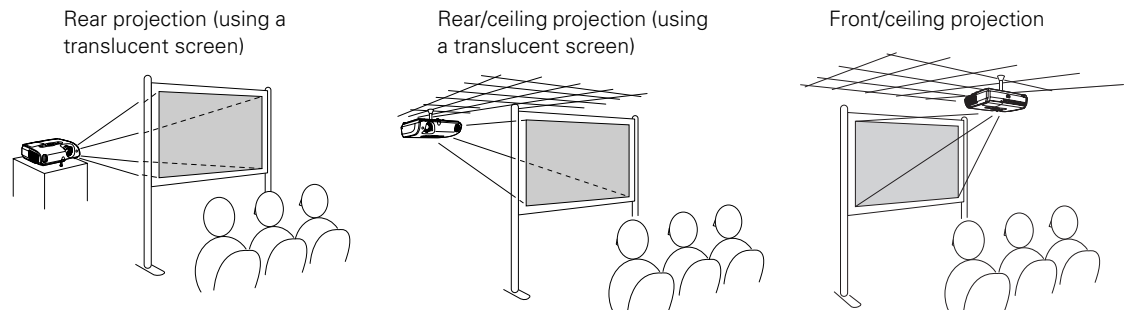
Try to place the projector directly in front of the center of the screen, facing it toward the screen squarely. If the projector isn't positioned this way, the image will be “keystone” shaped, instead of square or rectangular.

If you place the projector below the level of the screen, you'll have to tilt it up by extending the front adjustable foot, as described on page 39. This also causes the image to lose its rectangular shape. You can adjust the shape using the buttons on the projector (see page 39), or using the projector's menu system (see page 61).

On the PowerLite 77c, the Auto Keystone feature corrects the distortion automatically. See page 62 for more information about Auto Keystone correction. If necessary, you can adjust the image shape manually as described on page 39.

## Other Installations

You can also project from behind the screen or from the ceiling, with the projector mounted upside-down:



### **note**

*You can download the Projection Distance Calculator program from the Drivers and Downloads section of Epson's website: [epson.com/support](http://epson.com/support)*

### **note**

*The Auto Keystone feature corrects vertical distortion automatically (PowerLite 77c only). For more information, see page 39.*

To project from overhead, you'll need the optional ceiling mount hardware. (See page 14 for ordering information.) You'll also need to select **Front/Ceiling** or **Rear/Ceiling** for the Projection option in the Extended menu. To project from the rear, select **Rear**. See page 63 for more information.

## *Connecting to a Computer*

You can connect the PowerLite projector to any computer that has a standard VGA or BNC monitor port, including PC notebook and laptop computers, Macintosh PowerBooks and iBooks, and hand-held devices.

### **note**

*If you have an iBook with an RCA video-out port, follow the instructions for connecting to a video device on page 25.*

Follow the instructions in this section to:

- Connect the projector to your computer with the VGA cable included with the projector.
- Connect the projector to your computer with a commercially available VGA–5BNC cable.

After connecting the projector to your computer, you may also want to:

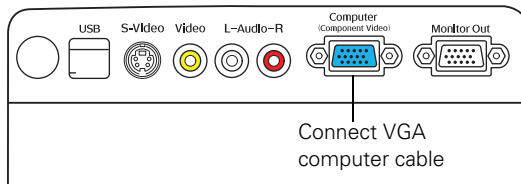
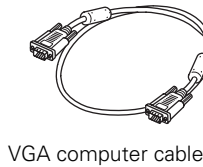
- Connect a USB cable to your projector so that you can use the remote control as a wireless mouse; see page 21
- Connect a monitor to the projector so you can view your presentation close-up as well as on-screen (not necessary if you're using a laptop); see page 22
- Connect the projector to your computer with a commercially available audio cable to play computer audio; see page 23.

## Connecting with the VGA Cable

Follow these instructions to connect to your computer with the VGA cable that came with your projector. Before you start, make sure your computer and the projector are turned off.

1. If you are connecting the projector to a desktop computer, disconnect the monitor cable from your computer.
2. Locate the VGA computer cable that came with the projector.

Connect one end of the cable to the projector's **Computer (Component Video)** port.



3. Connect the other end of the cable to your computer's video-out or monitor port.

If you're using a PowerBook or iBook and you can't connect the cable, you may need to use an optional Macintosh video adapter; see your computer dealer.

4. If you want to view the display simultaneously on your computer monitor and the projector screen, see "Connecting an External Monitor" on page 22.
5. Tighten the screws on the connectors.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 34.

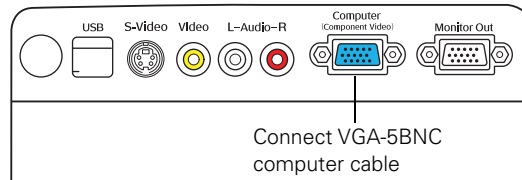


VGA-5BNC cable

## Connecting with a VGA-5BNC Cable

If your computer provides video output through BNC connectors, follow these instructions to connect the projector to your computer with an optional VGA-5BNC cable. Before you start, make sure your computer and the projector are turned off.

1. Disconnect the monitor cable from your computer.
2. Connect the cable's VGA connector to the projector's **Computer (Component Video)** port.



3. Connect the BNC connectors to your computer's BNC ports.
4. If you want to view the display simultaneously on your computer monitor and the projector screen, see "Connecting an External Monitor" on page 22.
5. Tighten the screws on the VGA connector.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.


If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 34.

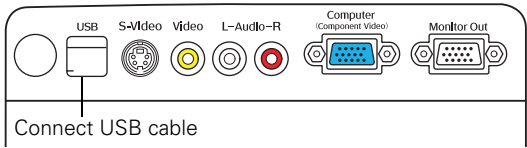
Connecting a USB Cable for Remote Presentation Control

You can use the remote control to click through slideshow-style presentations, such as PowerPoint, from up to 20 feet away. This makes it easy to deliver your presentation, since you won't need to stand near your computer.

To use this function, you will need a USB cable, a system with a working USB port, and the full version of one of these operating systems:

Windows®	Macintosh
Windows 98SE, 2000, Me, XP, or Windows Vista™	Macintosh OS X

- 1. If you are using a desktop computer, disconnect the mouse cable from your computer.
- 2. Connect the square end of the USB cable to the projector's  USB port.



- 3. Connect the flat end of the cable to any available USB port on your computer.
- 4. If necessary, configure your laptop to work with an external mouse.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

**note**  
*For details about using the remote control to change presentation slides, see page 48.*

## note

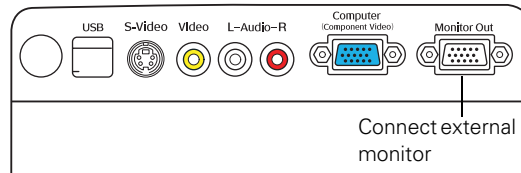
*Some LCD monitors may not be able to display the image correctly. If you have trouble displaying the image, connect a multiscan monitor. If you're projecting computer images, make sure the computer's refresh rate is set to 65 Hz or greater.*

## Connecting an External Monitor

If you want to see your presentation close-up as well as on the projection screen, you can connect an external monitor to the projector. This lets you view images on your computer monitor while the projector is in standby mode (plugged in but not turned on) and check your presentation or switch between picture sources even if you've pressed the **A/V Mute** button on the remote control to turn off projection on the screen.

Simultaneous display is possible only when the computer is connected to the projector's **Computer (Component Video)** port.

Make sure the projector and computer are off. Then connect the monitor's cable to the projector's **Monitor Out** port, as shown:

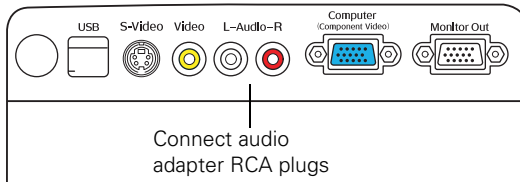




If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

## ***Playing Sound Through the Projector***

You can connect a commercially available computer audio adapter cable to take advantage of the projector's built-in speaker. You can obtain an audio adapter cable (3.5-mm stereo miniplug to two male RCA plugs) from a computer or electronics dealer.

1. Connect the RCA plugs on the audio adapter cable to the corresponding L-Audio-R jacks on the projector.



2. Connect the other end of the audio cable to your laptop's  headphone jack or  audio-out jack, or your desktop's speaker or audio-out port.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

## Connecting to Video Sources

You can connect a DVD player, VCR, camcorder, digital camera, gaming console, or any other compatible video source to your projector. You can connect up to three video devices at one time.

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### **note**

*The projector does not support TV antenna cable F connectors.*

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The projector supports HDTV, SDTV, NTSC, PAL, and SECAM, and automatically detects the video format. It can receive composite video, S-Video, RGB video, and component video. The type of cable you need depends on the video source:

- For composite video, use a commercially available RCA A/V cable. See page 25.
- For S-Video, use the S-Video cable supplied with your video device or order one from Epson. See page 26.
- For RGB video, use the VGA computer cable included with the projector. See page 27.
- For component video, you'll need the optional Epson component video cable. See page 28.

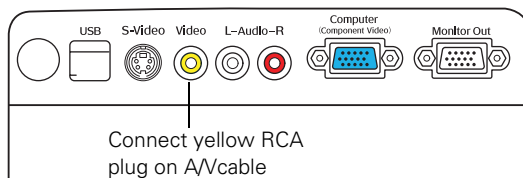
After connecting your video device to the projector, you may want to connect an audio cable to play sound from your video equipment through the projector's built-in speaker. See page 29 for instructions.



## Connecting a Composite Video Source

If you're connecting a composite video device, use a commercially available RCA A/V cable. Before starting, make sure the projector and your DVD player or other video source are turned off.

1. Connect the yellow RCA plug on one end of the cable to the projector's yellow **Video** jack.



2. Connect the yellow plug on the other end of the cable to the video-out port on your video source.
3. To play sound through the projector, follow the instructions beginning on page 29.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

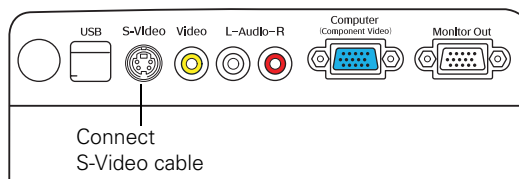
If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 34.

## Connecting an S-Video Source

If your video source has an S-Video jack, you can use it to project a higher quality video image. You'll need an S-Video cable, which is usually provided with your video source, or you can purchase one from Epson (part number ELPSV01). See page 14 for ordering information.

Before starting, make sure the projector and your DVD player or other video source are turned off.

1. Insert one end of the S-Video cable into the projector's **S-Video** port and the other end into the S-Video output port of your video source.



2. To play sound through the projector, follow the instructions beginning on page 29.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

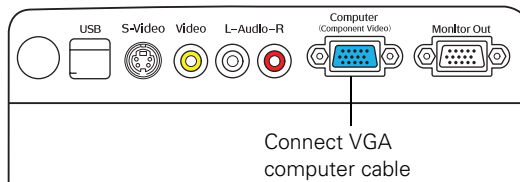
If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 34.

## Connecting an RGB Video Source

Follow these instructions to connect the projector to a video player or satellite receiver that has an RGB video output port using the VGA computer cable that came with the projector.

Before starting, make sure the projector and your DVD player or other video source are turned off.

1. Connect one end of the VGA computer cable to the **Computer (Component Video)** port on the projector.



2. Connect the other end to the video port on your player.
3. To play sound through the projector, follow the instructions beginning on page 29.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

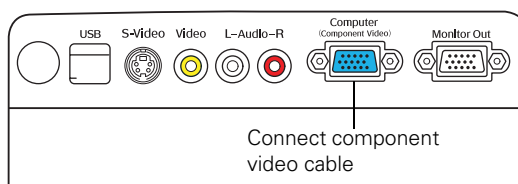
If more than one device is connected to the projector, select **Computer** as the source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 34.

## Connecting a Component Video Source

If your video source has component video connectors, you can use them to project a higher quality video image. You'll need a component video cable, which can be purchased from Epson (part number ELPKC19). See page 14 for ordering information.

Before starting, make sure the projector and your DVD player or other video device are turned off.

1. Connect the large end of the component video cable to the projector's **Computer (Component Video)** port.



2. Insert the three ends of the component video cable into the **R**, **G**, and **B** ports on your video source.
3. To play sound through the projector, follow the instructions beginning on page 29.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

If more than one device is connected to your projector, select **Computer (Component Video)** as the source by pressing the **Source Search** button on the projector or the remote control. See page 34.

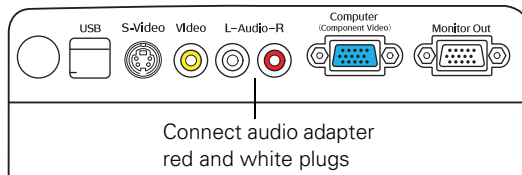
## ***Playing Sound Through the Projector***

The projector has a built-in speaker with a maximum output of 1 W. You can play sound from your video equipment through the projector's speaker if your video device has an audio output port.

### ***For RCA-Style Audio Output Ports***

Most video devices have an RCA-style audio output port. In this case, use a commercially available RCA-style audio cable to connect the projector to your video source:

1. Connect the red and white plugs on one end of the audio cable to the L-Audio-R jacks on the projector.



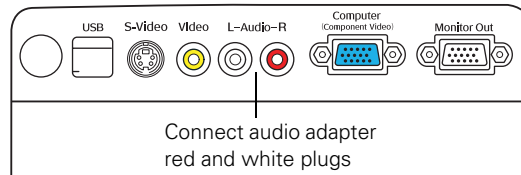
2. Connect the red and white plugs on the other end of the audio cable to the corresponding color-coded audio output port on your video source.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

### *For Stereo Mini-Jack Audio Output Ports*

Some video devices, especially camcorders, may have a stereo mini-jack audio output port. In this case, use a commercially available audio adapter cable (3.5-mm stereo miniplug to two male RCA plugs) to connect to the projector:

1. Connect the red and white plugs on the audio adapter cable to the **L-Audio-R** jacks on the projector.



2. Connect the other end of the audio adapter cable to your video device's audio output port.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 32 for instructions.

# 2

## *Projecting*

Once you've set up the projector, you're ready to turn it on, adjust the image, and give your presentation.

Although you can operate the projector without it, the remote control lets you use additional features. See Chapter 3 for instructions on using the remote. This chapter covers the following:

- Turning on the projector and other equipment
- Adjusting the image
- Adjusting the volume
- Shutting down the projector

## *Turning On Your Equipment*

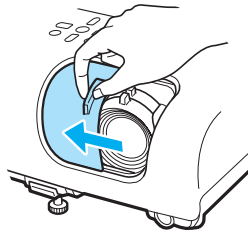
Make sure your projector and other equipment are set up and connected correctly, as described in Chapter 1. Then turn on your projector, as described below.

If you turn on your connected computer or video equipment before starting the projector, the projector automatically detects and displays the image source. If you turn on the projector first, or have multiple pieces of connected equipment, you may have to select the image source manually. See page 34.

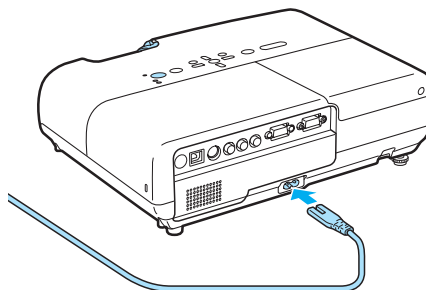
### ***Turning On the Projector***

Follow these steps to plug in and turn on the projector:

1. Open the A/V Mute slide (lens cover).




2. Connect one end of the power cord to the projector's power inlet.

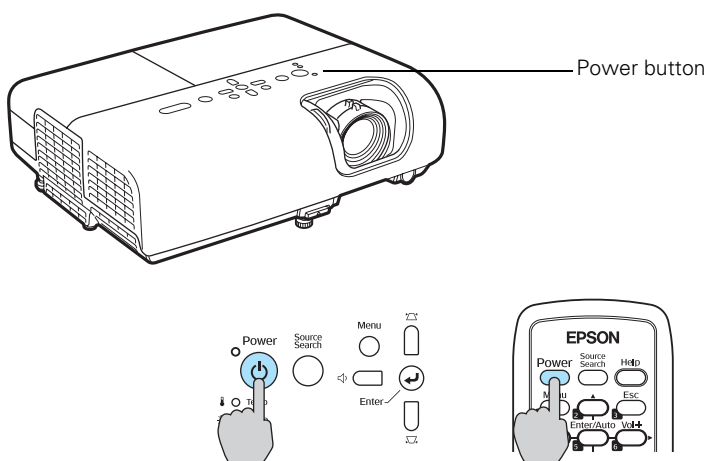




3. Connect the other end to an electrical outlet.

The power light on top of the projector turns orange, indicating that the projector is receiving power but not yet turned on. Wait until the light stops flashing but stays orange.

4. Turn on your computer or video source if you have not already.
5. Press the  **Power** button on top of the projector to turn it on. (You can also press the **Power** button on the remote control.)



---

### **note**

*If you are using the remote control for the first time, be sure to insert the batteries as described on the Quick Setup poster.*

---

The projector beeps and the power light flashes green as the projector warms up. The projector lamp comes on in about 4 seconds and the power light stays green.

- If you're using a computer, you should see your computer display projected after a moment or two. If not, you need to select the image source. See page 34.

(Windows only: If you see a message saying that it has found a plug-and-play monitor, click **Cancel**.)

- If you're projecting a video, you may need to press the **Source Search** button on the projector or remote control to switch to your video source. Then press the **Play** button on your DVD player or other device.
- If you are prompted to enter a password, see page 70.

---

### **warning**

*Never look into the lens when the lamp is on. This can damage your eyes, and is especially dangerous for children.*

---

To focus and adjust the image, see page 37. If a projected image fails to appear, see “What To Do If You See a Blank Screen” on page 34.

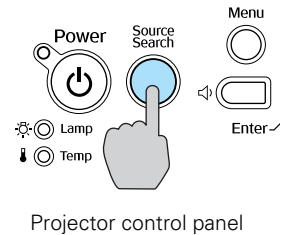
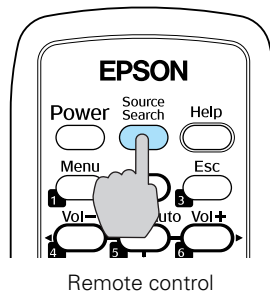
When you’re done with your presentation, shut down the projector as described on page 42.

### **note**

*The name of the selected image source appears in the upper right corner of the screen.*

## **Selecting the Image Source**

Selecting the image source lets you switch between images input from different pieces of equipment connected to the projector (such as a computer and DVD player). If you don’t see the image you want, press the **Source Search** button on the remote control or projector until the correct device image is projected.



If a projected image fails to appear, see the next section for help.

Once you see your image, turn to page 37 for instructions on focusing and making other image adjustments.


## **What To Do If You See a Blank Screen**


If you see a blank screen or a blue screen with the message **No Signal** after turning on your computer or video source, try the following:

- Make sure the cables are connected correctly, as described in Chapter 1.
- Make sure the power light is green and not flashing and the **A/V Mute** slide is open.
- Make sure you’ve selected the correct image source; see the previous section. Allow a few seconds for the projector to sync up after pressing the button.

- Check the Signal menu to make sure the correct input source is selected. See page 58.

### *If you're using a PC laptop:*

- Hold down the Fn key and press the function key that lets you display on an external monitor. It may have an icon such as  or it may be labelled **CRT/LCD**. Allow a few seconds for the projector to sync up after pressing it. Check your laptop's manual or online help for details.

On most systems, the  or **CRT/LCD** key lets you toggle between the LCD screen and the projector, or display on both at the same time.

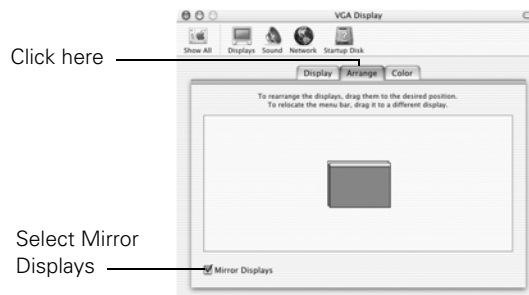
- If you're projecting from a laptop, and you don't see the same image on the projection screen and computer screen, check your monitor settings to make sure both the LCD screen and the external monitor port are enabled.

From the Control Panel, open the **Display** utility. Click the **Settings** tab, then click **Advanced**. The method for adjusting the settings varies by brand; you may need to click a **Monitor** tab, then make sure the external Monitor port is set as your primary display and/or enabled. See your computer's documentation or online help for details.

### *If you're using a Macintosh laptop with OS X:*

You may need to set up your system to display on the projector screen as well as the LCD screen. Follow these steps:

1. From the Apple menu, select **System Preferences**, then click **Display** or **Displays**.
2. Select **VGA Display** or **Color LCD**, click **Arrange** or **Arrangement**, and make sure **Mirror Displays** is checked.



## *Adjusting the Image*

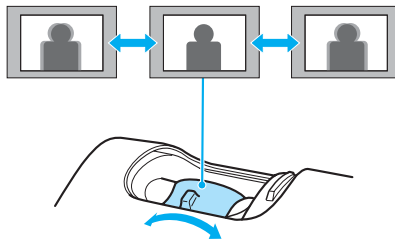
Once you see your image, you'll need to make certain adjustments:

- To focus or zoom your image, see below or page 38.
- If the image is too high or too low, you can reposition it. See page 39.
- If the image isn't square, see page 39.
- To adjust image brightness, see page 40.
- If a computer image displays incorrectly, see page 41.
- To change the color mode for your image and surroundings, see page 44.

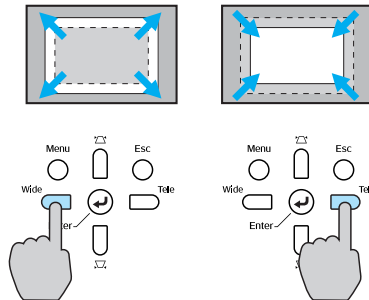
You can make many other adjustments to the image—such as changing the brightness, contrast, and aspect ratio—using the projector's menu system. See Chapter 4 for more information.

### ***Focusing and Zooming Your Image (PowerLite S5 Series)***

Rotate the focus ring to sharpen the image.



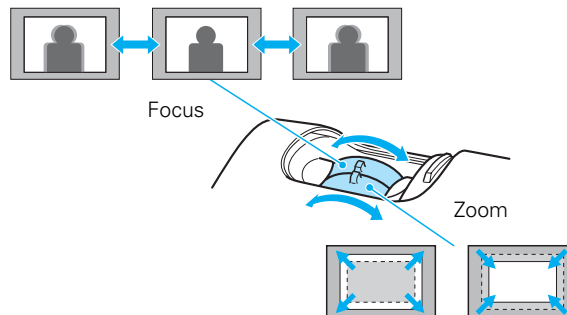
Press the **Wide** button on the projector to enlarge the image, or the **Tele** button to reduce it.



You can also change the image size by moving the projector closer to or farther away from the screen. You can use the **E-Zoom** buttons on the remote control to zoom in on a portion of the image. See page 47 for instructions.

### ***Focusing and Zooming Your Image (PowerLite 77c)***

Rotate the focus ring to sharpen the image, and the zoom ring to reduce or enlarge the image.

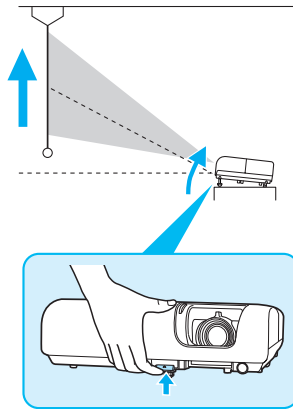


You can also change the image size by moving the projector closer to or farther away from the screen. You can use the **E-Zoom** buttons on the remote control to zoom in on a portion of the image. See page 47 for instructions.

## Adjusting the Height of Your Image

If the image is too low, you can raise it by extending the projector's front adjustable foot.

1. Stand behind the projector. Press up on the blue foot release lever and lift the front of the projector to extend the front adjustable foot.





2. Once the image is positioned where you want, release the lever to lock the foot in position.

If the image is no longer rectangular after raising it, see the next section.





## Adjusting the Image Shape

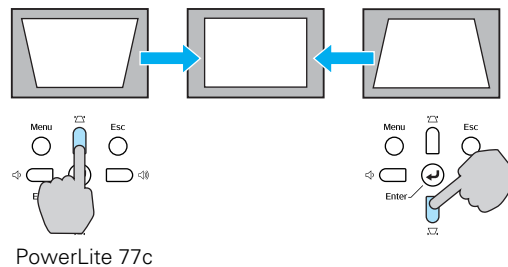
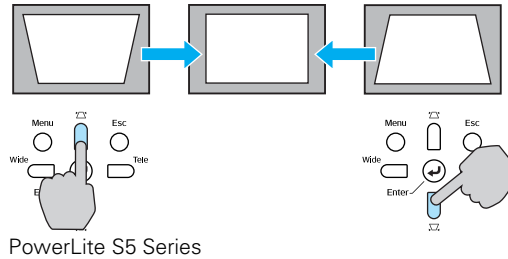
If the projector is tilted up or down, the images that are displayed will be distorted. To correct the distortion or “keystone” shape, do one or more of the following:

- If your image looks like  or , you've placed the projector off to one side of the screen, at an angle. Move it directly in front of the center of the screen, facing the screen squarely.

### **note**

*The PowerLite 77c automatically corrects images that are distorted when the projector is tilted up or down (up to a 30° tilt). The Keystone window appears on the screen while the projector makes the correction. If the projected image still isn't rectangular, follow the instructions on this page.*

- If your image looks like  or , you need to adjust the keystone correction value. Press the  or  buttons on the projector to correct the shape of the image. After correction, your image will be slightly smaller.



- On the PowerLite 77c, you may need to turn on Auto Keystone. See page 61 for instructions.

You can also make keystone adjustments using the projector's Settings menu. See page 62.

## Adjusting the Brightness

The brightness of an image depends on the source you are projecting and the amount of light in the room. If the image is too bright or not bright enough, here are two ways you can adjust it:

- Change the **Brightness** setting in the Image menu. See page 56.
- Select **Low** or **High** for the **Brightness Control** option in the Settings menu. (See page 62.) Low brightness mode extends the life of the lamp and decreases the fan noise.





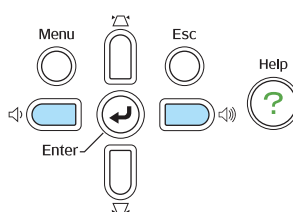
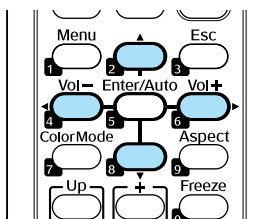
## Correcting Computer Images

If you've connected a computer and the image doesn't look right, or it doesn't fit properly on the screen, press the **Enter** button on the projector or the **Enter/Auto** button on the remote control. This automatically resets the projector's tracking, sync, resolution, and position settings. You must be projecting a computer image for this button to have any effect. Additionally, if the **Auto Setup** option in the Signal menu is set to **OFF**, the Auto function will not work. See page 59.

## Adjusting the Volume

You can use the **Vol-** and **Vol+** buttons on the remote control to increase or decrease the volume for the projector's built-in speaker.

On the PowerLite 77c, you can also use the buttons on the projector to control the volume. Press the  button to increase the volume, or the  button to decrease it. A volume gauge appears on the screen while the volume is being adjusted.



PowerLite 77c only

### **note**

*You can also adjust the volume using the projector's Settings menu. See page 61 for details.*

*You must adjust the volume separately for each input source.*

## note

*When the projector has not received any input signals for 30 minutes, it automatically turns off the projector lamp and enters “sleep mode.” This conserves electricity, cools the projector, and extends the life of the lamp. If you are done using the projector, unplug the power cord. If you want to start projecting again, press the **Power** button. You can turn sleep mode on or off through the Extended menu. See page 64.*

*Turn off this product when not in use to prolong the life of the projector.*

## caution

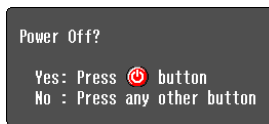
*To avoid damaging the projector or lamp, never unplug the power cord when the power light is green or flashing orange.*

# Shutting Down the Projector

When you’ve finished using the projector, follow the recommended procedure to shut it down:

1. If you’re using a computer, shut it down first; otherwise you may not be able to see your computer’s display to shut it down properly.
2. To turn off the projector, press the **Power** button on the projector or remote control.

You see this confirmation message:  
(If you don’t want to turn it off, press any other button or wait a few seconds until it disappears.)

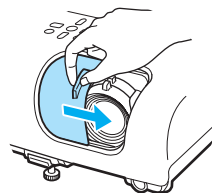


3. Press the **Power** button again. The projector beeps twice, the lamp is turned off, and the power light turns orange.

With Epson’s exclusive Instant Off® technology there’s no cool-down period, so you can pack up and go immediately after turning off the projector.

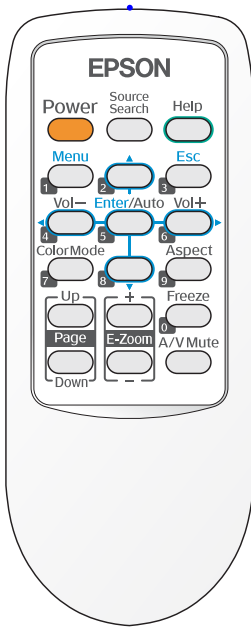
If you want to turn the projector on again, press the **Power** button.

4. Press up on the blue foot release lever and lower the projector to retract the front adjustable foot.
5. Close the A/V Mute slide.
6. Unplug the power cord.
7. Turn off and disconnect any equipment plugged into the projector.
8. If you won’t be using the projector for awhile, store it in the soft case that came with it or in a protective case.



# 3

## *Using the Remote Control*



The remote control lets you access your projector's features from anywhere in the room—up to 20 feet away. For example, you can turn the projector on and off, freeze the presentation, zoom in on a portion of your image, and access the menu system. (The projector menus let you adjust many projector settings; see Chapter 4.)

If you're using a computer and you've connected a USB cable as described in Chapter 1, you can use the remote control to change slides in your presentation.

When using the remote control, stand within 20 feet of the projector. Point the remote control either at the front or back of the projector or at the screen (the projector's front sensor can detect signals bounced off the screen). Press the button for the function you want to use.

This chapter covers the following information:

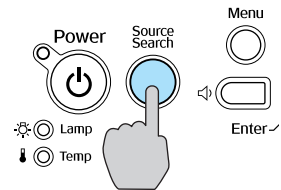
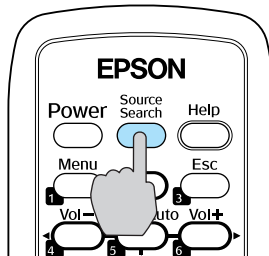
- Controlling the picture and sound
- Changing slides in a presentation
- Replacing the remote control batteries

## Controlling the Picture and Sound

You can use the remote control to select your source, temporarily turn off the picture and sound, freeze the action, or zoom in on the picture. Make sure you have set up your projector and connected any equipment as described in Chapter 1.

### Switching Between Picture Sources

If you've connected your projector to more than one computer and/or video source, you can use the **Source Search** button on the projector or remote control to switch between the different sources.

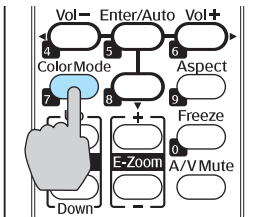


After you select a source, the screen goes dark for a moment before the image appears. The name of the selected source (such as **Computer** or **S-Video**) appears briefly on the screen.

### Adjusting the Color Mode

You may want to adjust the color mode to select a different setting that is appropriate for the image you're projecting and the environment in which you're projecting it. Press the **Color Mode** button on the remote control.

If you're projecting computer or RGB video images, the default color mode is **Presentation**, which is appropriate for full-color presentations in bright rooms.



The following table lists the color modes available.

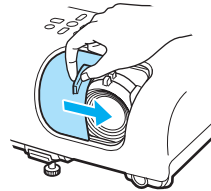
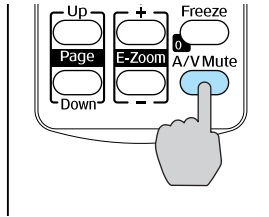
<b>Color mode</b>	<b>Description</b>
Photo	Best for projecting still images with vivid color in a bright room (computer input only).
Sports	Best for watching TV in a bright room (component, S-video, or composite video input only).
Presentation	Use when you're projecting a full-color presentation in a bright room.
Text	Use when you're projecting a black and white presentation in a bright room.
Theatre	Use when projecting movies in a dark room.
Game	Brightest mode, best for use in a bright room.
sRGB	Use when projecting computer images conforming to the sRGB color standard.
Blackboard	Choose this fixed color mode when you need to project against a green chalkboard.

You can also use the projector menu system to change the color mode in the Image menu (see page 56).

## Turning Off the Picture and Sound

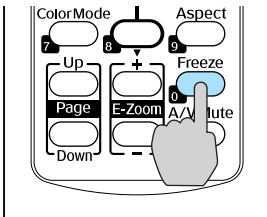
Press the **A/V Mute** button on the remote control or use the **A/V Mute** slide on the projector to turn off the image and sound and darken your screen. This is useful if you want to temporarily re-direct your audience's attention without the distraction of a bright screen.

- To turn off the picture and sound, press the **A/V Mute** button or close the **A/V Mute** slide on the projector. The screen goes dark.



- To turn the image and sound back on, press the button again, or open the **AV Mute** slide.

You can create an image, such as a company logo or a picture, to display on the screen whenever you press the **A/V Mute** button. See page 67 for more information.



## Stopping Action

Press the **Freeze** button to stop the action in your video or computer image and keep the current image on the screen. The sound will continue, however. Also, because the source continues to transmit signals, you won't resume the action from the point you paused it.

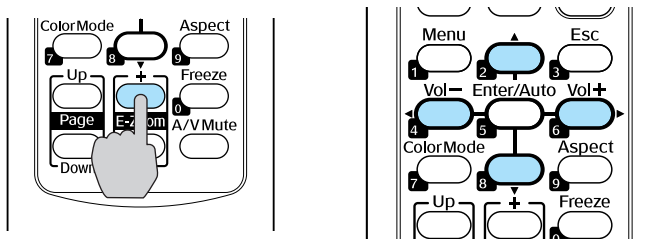
Press the **Freeze** button again to restart it.

## Zooming Your Image

Follow these steps to zoom in on a portion of the image:

1. Press the E-Zoom + button on the remote control.

You see a crosshair indicating the center of the zoom-in area.



2. Use the four “arrow” buttons on the remote control to position the crosshair in the area you want to enlarge.
3. Continue pressing the E-Zoom + button to enlarge the selected area up to 4 times.
4. While the image is enlarged, you can:
  - Use the arrow buttons to pan about.
  - Press the E-Zoom – button to zoom out.
5. When you’re done, press the ESC button to return to the original size.

## note

*You must be projecting component, composite, or S-Video images to change the aspect ratio.*

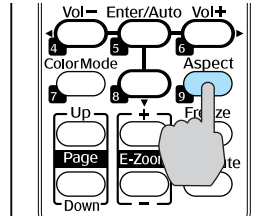
*You can also change the aspect ratio using the projector's Signal menu. See page 58 for details.*

## Changing the Image's Aspect Ratio

If you're projecting a widescreen format image, you can use the **Aspect** button on the remote control to change the aspect ratio.

Follow these steps:

1. Press the **Aspect** button once to change the aspect ratio to 16:9 for widescreen format.



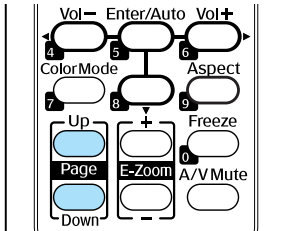
2. Press it again to return to 4:3 aspect ratio.

## Changing Presentation Slides

You can use the remote control to click through slideshow-style presentations (such as PowerPoint) from up to 20 feet away. This gives you more flexibility, since you don't need to stand near your computer to change slides.

To change slides with the remote control, make sure you have connected your computer to the projector with a USB cable as described on page 21.

To advance slides in a PowerPoint presentation in Slide Show mode, press the **Page up** button on the remote control. Press the **Page down** button to go back a slide.

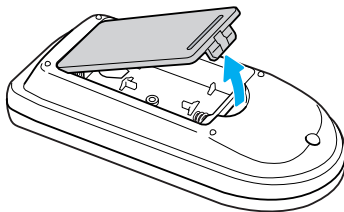




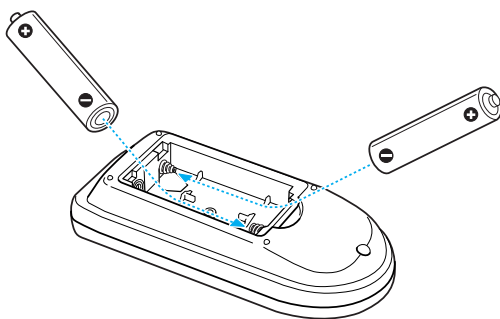
## Replacing the Batteries

The remote control uses two AA alkaline batteries. Follow these steps when you need to replace them:

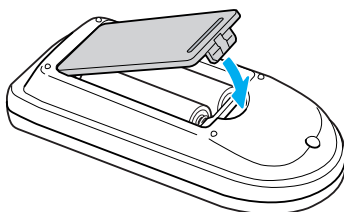
1. Press in the tab to remove the battery cover.



2. Remove the old batteries, then insert the new ones as shown.



3. Replace the battery cover. (It should click into place.)



### **note**

*The remote control automatically shuts off when it detects a button being pressed more than 30 seconds. This conserves battery life. It can be helpful, for example, when the remote is in a carrying case and the **Power** button is accidentally pushed.*

### **caution**

*When replacing batteries, take the following precautions:*

- *Replace the batteries as soon as they run out. If a battery leaks, wipe away battery fluid with a soft cloth. If fluid gets on your hands, wash them immediately.*
- *Do not expose batteries to heat or flame.*
- *Dispose of used batteries according to local regulations.*
- *Remove the batteries if you won't be using the remote control for a long period of time.*



# 4

## *Fine-tuning the Projector*

You can use the Menu button on the projector or remote control to access on-screen menus to adjust the image, sound, and other features. This chapter covers the following information:

- Using the menu system
- Adjusting image colors and clarity
- Adjusting the input signal
- Customizing projector features
- Selecting projector setup options
- Viewing lamp usage and other information
- Using the projector's security features
- Restoring the default settings

## *Using the Projector's Menu System*

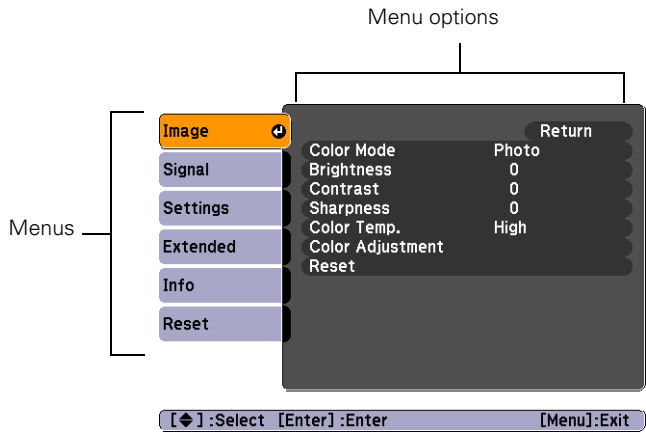
The six projector menus let you adjust and customize the projector features:

- The **Image** menu lets you modify the colors of the projected image and fine-tune brightness, contrast, and sharpness.
- The **Signal** menu lets you make adjustments to the input signal. You can select your input source, change the image position and aspect ratio, and adjust tracking and sync for computer images.
- The **Settings** menu lets you customize the way you use the projector. It allows you to adjust the volume and keystone correction, set lamp brightness to high or low, and disable buttons on the projector while you are projecting.
- The **Extended** menu lets you customize the way you set up the projector. Among the options, you can select the menu language, set rear or ceiling projection, and record a custom image or logo to be displayed as the startup screen or whenever you press the **A/V Mute** button on the remote control.
- The **Info** menu provides information about lamp status and computer or video settings.
- The **Reset** menu lets you restore the projector's factory default settings.

# Changing Menu Settings

Use the buttons on the remote control or on the projector to access the menus and change settings. Follow these steps:

- 1. Press the **Menu** button on the remote control or projector to display the menu screen:

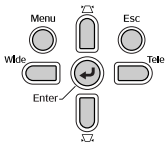


The six menus are listed on the left, and the options available for the highlighted menu are shown on the right.

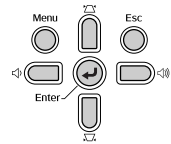
- 2. Use the up and down arrow buttons on the projector or remote control to scroll through the menu list. When you've highlighted the desired menu, press the **Enter** button on the projector (or the **Enter/Auto** button on the remote control) to select it.

The highlight moves to the first option for that menu.

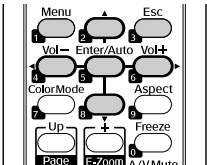
- 3. Use the up and down arrow buttons on the projector or remote control to scroll through the list of options. (The options available depend on which source is selected.)



PowerLite S5 Series



PowerLite 77c



Remote control

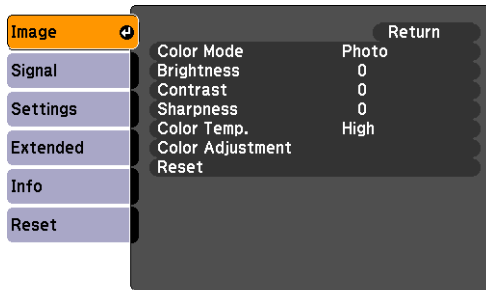
4. After highlighting the option you want to adjust, use the **Vol-** or **Vol+** button on the remote control or left or right arrow buttons on the projector to change the setting. In some cases, you may have to press the **Enter** button to see a sub-screen for changing the setting.



- Press the **Vol-** or **Vol+** button on the remote control or the left or right arrow buttons on the projector to adjust a slider bar.
  - To select from two or more settings, use the **Vol-** or **Vol+** buttons or arrow buttons to highlight the desired setting, then press **Enter**.
5. Press the **Esc** button to return to the previous menu or to close the menu system if you are at the main menu. Your changes are saved automatically.
  6. Press the **Menu** button to exit the menu system.

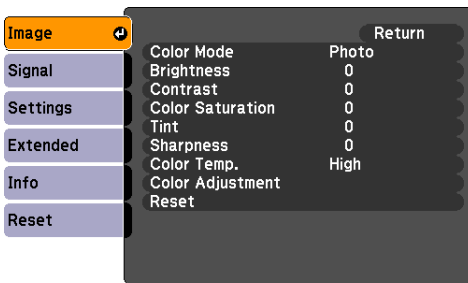
## Adjusting Colors and Clarity

The Image menu lets you make adjustments to the colors of the projected image and fine-tune brightness, contrast, and sharpness. The options available depend on which image source is selected:



[Left Arrow]:Select [Enter]:Enter [Menu]:Exit

Computer (analog-RGB) and RGB video



[Left Arrow]:Select [Enter]:Enter [Menu]:Exit

Component, composite, and S-Video

Follow these steps to adjust the appearance of your image:

1. Press the **Menu** button. You see the main menu.
2. Press **Enter** to select the Image menu.